

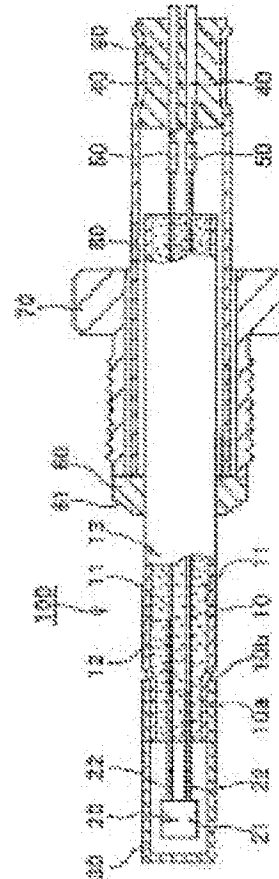


TEMPERATURE SENSOR AND MANUFACTURE THEREOF**Publication number:** JP2001056256 (A)**Publication date:** 2001-02-27**Inventor(s):** FUKAYA MATSUO; TAKAHASHI SOTOO**Applicant(s):** DENSO CORP**Classification:**- international: **G01K7/22; G01K7/16; (IPC1-7): G01K7/22**- European: **G01K7/22****Application number:** JP19990230795 19990817**Priority number(s):** JP19990230795 19990817**Also published as:** **DE10034265 (A1)** **FR2797687 (A1)****Abstract of JP 2001056256 (A)**

PROBLEM TO BE SOLVED: To minimize the diameter of a metal cap by forming a cap connecting part, which is a part, covered with the metal cap, of an outer cylinder as a small diameter part smaller in outer diameter than the other part excluding the cap connecting part of the outer cylinder. **SOLUTION:** This temperature sensor 100 is provided with a metallic outer cylinder 10 holding a pair of conductive core wires 11 in an insulated manner inside; a temperature detecting element (such as a thermistor element) 20 electrically connected on one end side thereof to one end side of the core wires 11; and a metal cap 30 put on one end side of the outer cylinder 10 to contain the temperature detecting element 20. A part (a cap connecting part), covered with the metal cap 30, of the outer cylinder 10 is formed as a small diameter part 10a smaller in outer diameter than the other part (a non-connecting part) excluding the cap connecting part of the outer cylinder 10. The small diameter part 10 has an almost constant outer diameter over the whole area and comprises a step part between the small diameter part 10 and the non-connecting part of the outer cylinder 10.

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